

# Tornado and Hurricane Roof Tie

## Abstract

A building roof tie for attaching roof trusses and rafters to wood top plates in building structures, such roof tie having a sheet metal body with risers and a bridge for overlapping a rafter and flaps for wrapping on the sides of the top plate. A generally triangular shaped reinforcing wing provides strength and stability, and can also provide additional hold-down strength, allowing the roof tie to be manufactured from different weights of steel. Turnbuckles attached to the bridge provide additional hold-down strength against increased uplift forces. The roof ties are pitched to conform to a variety of framing applications. A plurality of apertures is formed in the roof tie to provide openings for fasteners for connecting the tie to the wood top plate and rafter.